

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-14	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/14/15	Date Drilling Completed 09/14/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25" I-14
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-14 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	6		1	Sand fill	SP					M				
				2	Rock refusal @ 2'										
				3											
				4											
				5											
				6											
				7											
				8											
				9											
				10											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-15	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/14/15	Date Drilling Completed 09/14/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-15 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	18		1	Fill sand	SP					M				
				2	Fine to medium dark brown sand w/ large cobble										
				3		GM			0.0						
				4											
				5					0.0						
2	SS	28		6	Saturated Fine sands w/ cobble and angular gravel						W				
				7		GM									
				8					0.0						
				9											
				10					0.0						
				11	EOB @ 10'										
				12											
				13											
				14											
				15											

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-16	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/14/15	Date Drilling Completed 09/14/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-16 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	12		1	Fine to medium dark brown sand w/ large cobble	GM			0.0	M					
				2											
				3					0.0						
				4											
2	SS	20		5	Finer dark brown sand w/ small pebbles	SM			0.0						
				6											
				7											
				8											
				9											
				10					0.0						
EOB @ 10'															
				11											
				12											
				13											
				14											
				15											

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-17	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-17 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	28		1	Asphalt base coarse	GP					D				
				2	Fill - fine brown sand						M				
				3					0.0						
				4		SM			0.0						
2	SS	36		5											
				6											
				7	Fine brown/gray/red sand w/ cobbles and angular gravel				2.8						
				8	- Strong petroleum odor										
3	SS	36		9											
				10	Saturated				3694		W				
				11	Fine brown sand w/ angular gravel and cobble	GM									
				12											
				13											
				14											
				15	EOB @ 15'				106.7						
				16											
				17											
				18											
				19											
				20											

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-18	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-18 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments	
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	SS	24		1	Asphalt base coarse	GP			0.0		D					
				2	Fill - fine brown sand w/ cobble	GM					M					
				3												
				4												
				5						0.0						
2	SS	18		6	Fine to medium brown to black sand w/ gray cobble and angular gravel	GM					0.0					
				7												
				8												
				9												
				10					0.0						W	
				11	EOB @ 10'											
				12												
				13												
				14												
				15												

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-19	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-19			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	24			Base coarse	GP			0.0		D				
				1	Fill - fine brown sand w/ cobble						M				
				2											
				3		SP									
				4											
2	SS	16		5	Fine to medium grain brown sand w/ trace small cobble/pebbles				0.0						
				6		GM			0.0						
				7											
3	SS	16		8	SAA w/ larger cobble				0.0		W				
				9		GP									
				10					0.0						
				10	EOB @ 10'										
				11											
				12											
				13											
				14											
				15											

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☒ Remediation/Redevelopment ☐ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-20	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> BH-20			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments				
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200					
1	SS	24		1	Asphalt base coarse	GP			0.0		D								
				2	Excavation fill - fine to medium brown sand w/ pebbles	SP													
				3															
				4															
				5															
2	SS	16		6				0.0											
				7															
				8										Red/brown finer sand w/ cobble	GM			0.0	
9																			
3	SS	20	10	EOB @ 10'				0.0		W									
				11															
				12															
				13															
				14															
				15															

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-21	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-21			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	21		1	Asphalt base coarse	GP					D				
				2	Dark brown to black fine to medium sand w/ gravel and cobble				2.8		M				
				3											
				4		SP			10.6						
				5											
2	SS	24		6											
				7					0.8						
				8											
				9	Strong petroleum odor - oil?										
				10	Saturated				2891		W				
				11	Finer brown sand w/ angular gravel										
3	SS	24		12		GM									
				13											
				14											
				15	EOB @ 15'										
				16											
				17											
				18											
				19											
				20											

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Signature	<i>Scott J. Bledsoe</i>	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-22B	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-22B			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments	
Number	Type	Length Att. & Recovered (in)	Compressive Strength								Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	SS	18		1	Asphalt base coarse	GP			67.8		D						
				2	Fine to medium brown to black sand w/ pebbles and angular gravel					M							
				3													
				4													
2	SS	27		5	Fine to medium brown sand w/ small gravel and trace cobble	GM				3.0							
				6													
				7													
				8					2502								
3	SS	36		9	SAA w/ strong petroleum odor												
				10	Saturated	2348				W							
				11	Fine to medium brown sand w/ small gravel and pebbles - Oil spots, strong odor												
				12													
				13													
				14	SAA w/ large cobbles					M							
				15	EOB @ 15'	1214											
				16													
				17													
				18													
				19													
				20													

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-23A	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-23A State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					ROD/ Comments
Number	Type	Length Att. & Recovered (in)							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	6	1	Rock refusal @ 5'				9.3						
			2											
			3											
			4											
			5	EOB @ 5'										
			6											
			7											
			8											
			9											
			10											

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Signature	<i>Stt / Bludo</i>	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-23C	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> BH-23C			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	20		1	Asphalt base coarse						D				
				2	Red/brown fine to medium sand w/ small cobble						M				
				3					0.0						
				4											
				5					2.3						
2	SS	12		6	Brown fine to medium sand w/ organic matter (wood) and cobble										
				7											
				8					0.0						
				9											
				10					0.0		W				
				10	EOB @ 10'										
				11											
				12											
				13											
				14											
				15											

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Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-23D	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-23D			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	6		1	Fine to medium dark brown sand	SP			2.6		M				
				2											
				3	Strong fuel oil odor										
				4	Rock refusal @ 3.5'										
				5											
				6											
				7											
				8											
				9											
				10											

I herby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
----------------------------	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-23E	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-23E State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					ROD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS			1	Rock refusal @ 3.5'				6.3						
			2												
			3												
				4	EOB @ 3.5'										
				5											
				6											
				7											
				8											
				9											
				10											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-24	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-24 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	33	1	Asphalt base coarse	GP					D				
			2	Red brown fine to medium sand w/ pebbles and gray cobble Perched water present				0.0		W				
			3											
			4											
			5					0.0						
2	SS	12	6	Fine to medium brown sand w/ pebbles and trace cobble	GM									
			7											
			8											
			9							M-W				
			10					0.0						
			11	EOB @ 10'										
			12											
			13											
			14											
			15											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-25	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-25 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	18	1	Asphalt base coarse										
			2	Brown fine to medium grain sand	SP			0.0		W				
			3											
			4	Gray brown fine sand/silt w/ cobble and angular gravel				0.0						
			5											
			6	Brown sandy silt w/ cobbles										
2	SS	18	7											
			8											
			9	Brown silty sand w/ pebbles	GM			0.0		W				
			10											
			11	Saturated										
3	SS	36	12	Brown sandy silt w/ angular gravel and some cobble										
			13											
			14											
			15					0.0						
			16	Blind drilled to 27' - Temp. well set and water sample collected										
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27	EOB @ 27'										
			28											
			29											
			30											

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-26	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-26			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	18		1	Asphalt base coarse										
				2	Brown, gray, black fine to medium sand w/ gravel and cobble				14		M				
				3											
				4											
				5											
2	SS	18		6	Brown fine to medium sand w/ gravel and cobble	GM			4.2						
				7											
				8											
				9											
				10					1564		W				
3	SS	12		11	Saturated										
				12	Brown silty sand w/ angular gravel and cobble										
				13											
				14											
				15					1312						
				16	Blind drilled to 27' - temp. well set and water sample collected										
				17											
				18											
				19											
				20											
				21											
				22											
				23											
				24											
				25											
				26											
				27	EOB @ 27'										
				28											
				29											
				30											

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-27	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-27			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments									
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200										
1	SS	22		1	Asphalt base coarse	GP				0.0	D M													
			2	Brown fine to medium sand w/ angular gravel, cobble	SP																			
			3																					
			4																					
			5	Black silt w/ organic matter	OL				0.3															
2	SS	24	6																					
			7	Saturated Brown silty sand w/ angular gravels					1.9															
			8																					
			9																					
			10																					
3	SS	36	11		GM				0.0		W													
			12																					
			13																					
			14																					
			15	EOB @ 15'		0.0																		
			16																					
			17																					
			18																					
			19																					
			20																					

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Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-28	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/15/15	Date Drilling Completed 09/15/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> BH-28			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments					
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200						
1	SS	24		1	Asphalt base coarse	GP			0.4		D									
				2	Brown fine to medium sand w/ angular gravel						M									
				3																
				4																
				5					0.0											
2	SS	34		6		GM					0.5									
				7																
				8																
				9																
				10	SAA - Strong petroleum odor							1576		W						
3	SS	24		11	Saturated															
				12	Brown sandy silts w/ cobble and angular gravel															
				13																
				14																
				15	EOB @ 15'									221						
				16																
				17																
				18																
				19																
				20																

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Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-29	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-29 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	24		1	Fine to medium grain brown fill sand	SP			0.0		M				
				2											
				3											
				4	SAA w/ large cobble				0.0						
2	SS	28		5	Coarse brown sand w/ pebbles										
				6	All soils saturated at 9'				0.0						
				7											
				8					0.0						
				9											
				10		GP			0.0		W				
3	SS	36		11											
				12											
				13											
				14											
				15					0.0						
4	SS	36		16											
				17											
				18											
				19											
				20	EOB @ 20'				0.0						
				21											
				22											
				23											
				24											
				25											

I hereby certify that the information on this form is true and the correct to the best of my knowledge



Signature <i>Jeff J. Blado</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
--------------------------------	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-30	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-30 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	17		1	Fine to medium brown sand w/ angular gravel and cobble	SP			0.0		M				
				2					0.0						
				3											
				4											
				5	No recovery - rock										
				6											
				7											
				8											
				9											
				10	Saturated				0.0		W				
				11	Coarse brown sand										
				12											
				13	Saturated	SP									
				14	Medium to coarse brown sand										
				15	Blind drilled to 25' - temp. well set and water sample collected				0.0						
				16											
				17											
				18											
				19											
				20											
				21											
				22											
				23											
				24											
				25	EOB @ 25'										
				26											
				27											
				28											
				29											
				30											

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Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-31A	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-31A State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					ROD/ Comments	
Number	Type	Length Att. & Recovered (in)	Compressive Strength								Moisture Content	Liquid Limit	Plasticity Index	P 200			
1	SS	0			1	Rock refusal @ 4.5'											
					2												
					3												
					4					0.0							
					5	EOB @ 4.5'											
					6												
					7												
					8												
					9												
					10												

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: ☐ Watershed/Wastewater ☐ Waste Management ☐
☒ Remediation/Redevelopment ☐ Other ☐

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Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-31B	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-31B			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	24		1	Asphalt base coarse	GP					D				
				1	Black/brown fine to medium grain sand w/ pebbles	GM					M				
				2	Brown fine to medium sand w/ pebbles and cobble				0.0						
				3	Perched water at 8'										
2	SS	36		4		OL			0.0						
				5											
				6											
				7											
				8	Black organic sandy silt w/ wood	OL					W				
				9							M				
				10	EOB @ 10'				0.0						
				11											
				12											
				13											
				14											
				15											

I hereby certify that the information on this form is true and the correct to the best of my knowledge





Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-32A	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-32A State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	12			Asphalt base coarse	GP					D				
				1	Fine to medium brown sand w/ gravel and cobble						M				
				2											
				3		GM			0.0						
				4											
				5	Rock refusal @ 5'				7.1						
				6											
				7											
				8											
				9											
				10											

I hereby certify that the information on this form is true and the correct to the best of my knowledge


Signature <i>Jeff J. Blodo</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: ☒ Watershed/Wastewater ☐ Waste Management ☐
☒ Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-32B	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-32B State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	10		Asphalt base coarse	GP			5.0		D				
			1	Fine to medium brown sand w/ pebbles						M				
			2											
			3											
			4											
2	SS	18	5	Fine to medium brown sand w/ pebbles angular gravel, cobble and crushed rock	GM			6.3						
			6					1189						
			7											
			8											
			9											
			10	EOB @ 10'				791		W				
			11											
			12											
			13											
			14											
			15											

I hereby certify that the information on this form is true and the correct to the best of my knowledge


Signature <i>John J. Blaska</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---------------------------------	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard			License/Permit/Monitoring Number BRRS # 03-64-127899		Boring Number BH-33	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15		Date Drilling Completed 09/16/15	
					Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"	
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-33			Lat	Local Grid Location		
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>		
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau		

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	18		1	Asphalt base coarse	GP			0.0		D				
				2	Fine to medium brown sand w/ trace cobble						M				
				3											
				4											
				5											
2	SS	24		6	Fine to medium brown sand w/ cobble and angular gravel	GM			0.0						
				7											
				8											
				9											
				10											
				10	EOB @ 10'				0.5		W				
				11											
				12											
				13											
				14											
				15											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-34	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-34 State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	24		1	Brown fine to medium fill sand w/ pebble and cobble						M				
				2					0.0						
				3											
				4		GM			0.0						
				5											
2	SS	34		6											
				7					0.0						
				8	SAA w/ crushed red brick layer Saturated at 9'										
				9											
				10		GP			0.2		W				
3	SS	36		11											
				12											
				13	Lean brown silty clay						M				
				14		CL			0.0						
				15	Saturated						W				
4	SS	24		16	Coarse brown sand w/ cobble										
				17		SP									
				18											
				19					0.0						
				20	EOB @ 20'										
				21											
				22											
				23											
				24											
				25											

I hereby certify that the information on this form is true and the correct to the best of my knowledge


Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
----------------------------	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS # 03-64-127899		Boring Number BH-35A	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-35A			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	6		1 2 3 4 5 6 7 8 9 10	Fine to medium grain brown sand w/ angular gravel and cobble	GM			0.0		M				
					Rock refusal @ 5'										

I hereby certify that the information on this form is true and the correct to the best of my knowledge.

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
----------------------------	--

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Route To: ☐ Watershed/Wastewater ☐ Waste Management ☐
☒ Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-35B	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> H-35B			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	18		1	Fine to medium grain brown sand w/ angular gravel and cobble	GM					M				
				2											
				3											
				4											
				5	Fine to medium grain brown sand w/ black silt seams and pebbles	SM			0.0						
2	SS	24		6											
				7											
				8					0.2						
				9											
				10	Saturated Brown coarse sand w/ pebbles	SP			70.3		W				
3	SS	24		11											
				12					78.3						
				13					2.0						
				14					1.9						
				15	EOB @ 15'				2.8						
				16											
				17											
				18											
				19											
				20											

I hereby certify that the information on this form is true and the correct to the best of my knowledge







Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-36	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> BH-36			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane WI		Long			
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments	
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	SS	8		1 2 3 4 5	Fine to medium grain brown to black sand w/ angular gravel and cobble	GM			0.0		M					
				6	SAA w/ trace organic matter	GM			0.0							
				7					0.1							
2	SS	4		8												
				9								W				
				10						0.0						
3	SS			11	Saturated	SP										
				12	Brown coarse sand w/ pebbles											
				13	Peat - black w/ wood	PT										
				14						0.0						
4	SS			15	Saturated	PT										
				16	Black silty peat											
				17	Coarse gray brown sand with wood and pebbles	OL				0.0						
				18												
				19												
				20	Blind drilled to 39'											
				21	- Temp. well set and water sample collected											
				22												
				23												
				24												
				25												
				26												
				27												
				28												
				29												
				30												
				31												
				32												
				33												
				34												
				35												
				36												
				37												
				38												
				39												
				40	EOB @ 39'											
				41												
				42												
				43												
				44												
				45												

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature <i>Jim Blair</i>	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
----------------------------	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-37A	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> BH-37A			Lat	Local Grid Location	
State Plane WI			Long	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	SS	20		1	Brown fine to medium sand w/ gravel and crushed rock	GM			0.0		M				
				2											
				3											
				4											
				5											
2	SS	12		6	Coarse sand w/ cobble/granite/pebbles Saturated at 6.5'	GP			0.0		W				
				7											
				8											
				9											
				10											
				11	Rock refusal @ 10'				0.0						
				12											
				13											
				14											
				15											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐


Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS # 03-64-127899		Boring Number BH-37B	
Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair			Date Drilling Started 09/16/15	Date Drilling Completed 09/16/15	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter 2.25"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location BH-37B State Plane WI			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	

Facility ID 764158560		County Vilas	County Code 63	Civil Town/City/or Village Lac Du Flambeau	
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Sample			Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Blind drill to 10'					M					
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
1	SS	24	10	Sandy silt w/ gravel seam Saturated	SM		0.0	W						
			11											
			12	Coarse brown sand w/ gravel Saturated	SP		0.0							
			13	Blind drill to 40'										
			14											
			15											
			16											
			17											
			18											
			19											
			20											
			21											
			22											
			23											
			24											
			25											
			26											
			27											
			28											
			29											
			30											
			31											
			32											
			33											
			34											
			35											
			36											
			37											
			38											
			39											
			40											
			41		EOB @ 40'									
			42											
			43											
			44											
			45											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS# 03-64-127899		Boring Number MW-16	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black			Date Drilling Started 11/2/15	Date Drilling Completed 11/2/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-16	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-16
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> State Plane			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample				Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Compressive Strength								Moisture Content	Liquid Limit	Plasticity Index	P 200		
	SS				1	Topsoil										
					2	Sand Fine to coarse, saturated, trace stones	SW			0.0						
				3												
1	SS	10	3	4												
					5	Organic	Pt			0.0						
				6												
2	SS	8	8	7												
					8	Sand Fine to medium, with organics, wet	SP			0.0						
				9												
3	SS	6	29	10												
					11	Sand Fine to medium to coarse with gravel, saturated	SW			0.2						
				12												
					13	EOB @ 12' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

[Handwritten Signature]

Firm

REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS# 03-64-127899		Boring Number MW-16 at 40-45ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/3/15	Date Drilling Completed 11/3/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-16 at 40-45ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-16 at 40
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			
Facility ID		County Vilas	County Code 63	Civil Town/City/or Village Town of Lac du Flambeau	

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				1	Topsoil										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
				8											
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				36											
				37											
				38											
				39											
				40											
				41											
				42											
				43	EOB @ 42' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS# 03-64-127899		Boring Number MW-17	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black			Date Drilling Started 11/2/15	Date Drilling Completed 11/2/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-17	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-17
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	SS		1	Topsoil and Grass										
			2											
1	SS	6	22	Sand Fine to coarse, many 3" to 6" stones and rounded small stones	SW			0.0						
			4											
2	SS	3	13	As above Saturated	SW			0.0						
			7											
3	SS	1	15	As above Wet with lots of rocks, hard drilling										
			9											
4	SS	12	5	Sand Fine to coarse, grey, stones, wood pieces and peat	SW									
			11											
5	SS		15	As above with gravel	SW									
			14											
			15	EOB @ 15' bls										
			16											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

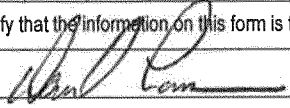
Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS# 03-64-127899		Boring Number MW-17 at 35-40ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/4/15	Date Drilling Completed 11/4/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-17 at 35-40ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-17 at 35
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW-17 at 35-40ft			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			

Facility ID	County	County Code	Civil Town/City/or Village
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Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					ROD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				1	Topsoil										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
				8											
				9											
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				34											
				35											
				36											
				37											
					EOB @ 36' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
--	---

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-18	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black			Date Drilling Started 11/3/15	Date Drilling Completed 11/3/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-18	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-18
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			

Facility ID		County Vilas		County Code 64		Civil Town/City/or Village Town of Lac du Flambeau	
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Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				-2											
	SS			0	Grass and Sand/Gravel										
1	SS	12	20	3	Sand Fine to coarse (mostly fine), trace rounded stones				0.0						
2	SS	12	6	6		SW			0.0						
3	SS	12	15	8	Sand More silt/clay, gets sandier with depth, wet at 8', sandstone stones at 9'	SM			3.8						
4	SS	12	22	11	As above Mainly fine to coarse sand with trace stones and minimal silt	SW			0.0						
5	SS	12	23	13	As above Drier, fine to coarse sand with increase in gravel	SW			0.0						
				15	EOB @ 15' bis										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature *[Signature]* Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRS# 03-64-127899		Boring Number MW-18 at 35-40ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/5/15	Date Drilling Completed 11/5/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-18 at 35-40ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-18 at 35
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW-18 at 35-40ft			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			

Facility ID	County	County Code	Civil Town/City/or Village
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Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					P 200	ROD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
				-2												
				-1												
				0	Grass and Sand/Gravel											
				1	Blind Drilled											
				2												
				3												
				4												
				5												
				6												
				7												
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				35												
				36												
				37												
				38												
				39												
				40												
				41	EOB @ 40' bls											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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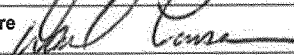
Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-19	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe			Date Drilling Started 11/3/15	Date Drilling Completed 11/3/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-19	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-19
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> State Plane			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FTD	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				-2											
	SS			0	Grass and Topsoil										
				1											
1	SS	3	25	2	Sand Fine to coarse with rounded stones	SW			0.0						
				3											
				4											
2	SS	3	8	5					0.0						
				6											
				7											
3	SS	9	6	8	Sand Graded into from above, grey, silty with trace gravel, saturated	SM			0.0						
				9											
				10											
4	SS	12	9	11	Sand Clayey, silty with trace gravel	SC			0.0						
				12											
				13											
5	SS	12	2	14	Sand Fine to coarse with trace gravel	SW			0.0						
				15											
				16	EOB @ 15' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS# 03-64-127899		Boring Number MW-19 at 35-40ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/5/15	Date Drilling Completed 11/5/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-19 at 35-40ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-19 at 35
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				-2											
				-1											
				0											
				1	Grass/Topsoil										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
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				41	EOB @ 40' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-20	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black		Date Drilling Started 11/3/15		Date Drilling Completed 11/3/15	
Drilling Method Hollow Stem Auger					
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-20		Final Static Water Level	Surface Elevation 0
				Borehole Diameter 8 inch	V-20
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>		Lat		Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	SS		1	Asphalt										
			2											
1	SS	20	3	Sand and Gravel Fine to coarse, brown, trace silt				22.9						
			4											
2	SS	14	5		SW			13.8						
			6											
			7											
3	SS	3	8	Sand Fine to coarse with rounded stones, saturated and strong odor, rainbow sheen on spoon from 10-12' bls				5160						
			9											
			10											
4	SS		11					5418						
			12		SW									
			13	As above Fewer fines, more angular stones										
5	SS	12	14											
			15	EOB @ 15' bls				1855						
			16											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

[Handwritten Signature]

Firm

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4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-20 at 20-25ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/2/15	Date Drilling Completed 11/2/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-20 at 20-25ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-20 at 20
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Asphalt Blind Drilled										
					EOB @ 25' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature  Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-21	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black			Date Drilling Started 11/3/15	Date Drilling Completed 11/4/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-21	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-21
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	SS		1	Asphalt Road Base										
			2											
			3	Sand Brown, drilled through large rock	SP									
			4											
1	SS	25	5	Sand Fine to medium with rocks	SP			93.0						
			6											
			7											
2	SS	13	8	Sand Fine to coarse, saturated with rounded gravel, odor				3750						
			9											
			10	Sand and Gravel Fine to coarse, saturated, increase in gravel, decrease in fine to medium sand	SW			1578						
			11											
			12											
4	SS	16	13					849						
			14											
			15	EOB @ 15' bls										
			16											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number		Boring Number MW-21 at 35-40ft	
Boring Drilled By: Name of crew chief (first, last) and Firm MW-21 at 35-40ft			Date Drilling Started 11/5/15	Date Drilling Completed 11/5/15	Drilling Method
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter MW-21 at 35
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW-21 at 35-40ft			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane		Long			
Facility ID		County	County Code	Civil Town/City/or Village	

Sample			Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					P 200	ROD/ Comments
Number	Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
				1	Asphalt											
				2	Blind Drilled											
				3												
				4												
				5												
				6												
				7												
				8												
				9												
				10												
				11												
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				34												
				35												
				36												
				37												
				38												
				39												
				40												
				41	EOB @ 40' bls											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRTS# 03-64-127899		Boring Number MW-22	
Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black			Date Drilling Started 11/4/15	Date Drilling Completed 11/4/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-22	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-22
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> State Plane			Lat Long	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Vilas	County Code 64	Civil Town/City/or Village Town of Lac du Flambeau	

Sample				Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)	Blow Counts							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	SS			1	Fill Sand										
				2											
1	SS		5	3					13.8						
				4											
2	SS		5	5					0.0						
				6											
				7	Sand and Gravel Saturated, fine to coarse	SW			3015						
3	SS		39	8											
				9											
				10	Sand Fine, trace gravel				54.2						
4	SS		36	11											
				12		SP									
				13					2.1						
5	SS		18	14											
				15	EOB @ 15' bls										
				16											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 	Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
---	--

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name Tower Standard		License/Permit/Monitoring Number BRRTS# 03-64-127899		Boring Number MW-22 at 35-40ft	
Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan			Date Drilling Started 11/3/15	Date Drilling Completed 11/3/15	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Common Well Name MW-22 at 35-40ft	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8 inch V-22 at 35
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/>			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
State Plane			Long		

Facility ID County Vilas County Code 64 Civil Town/City/or Village Town of Lac du Flambeau

Sample			Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type	Length Att. & Recovered (in)							Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Fine Sand Cover										
			2	Blind Drilled										
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
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			36											
			37											
			38											
			39											
			40											
			41											
				EOB @ 40' bls										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature  Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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APPENDIX D

MONITORING WELL CONSTRUCTION FORMS



Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-16
Facility License Permit or Monitoring Number	Grid Origin Location	Wls. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft. ___	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation ___ ft. MSL
B. Well casing, top elevation ___ ft. MSL
C. Land surface elevation ___ ft. MSL
D. Surface seal, bottom .5 ft. MSL or ___ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

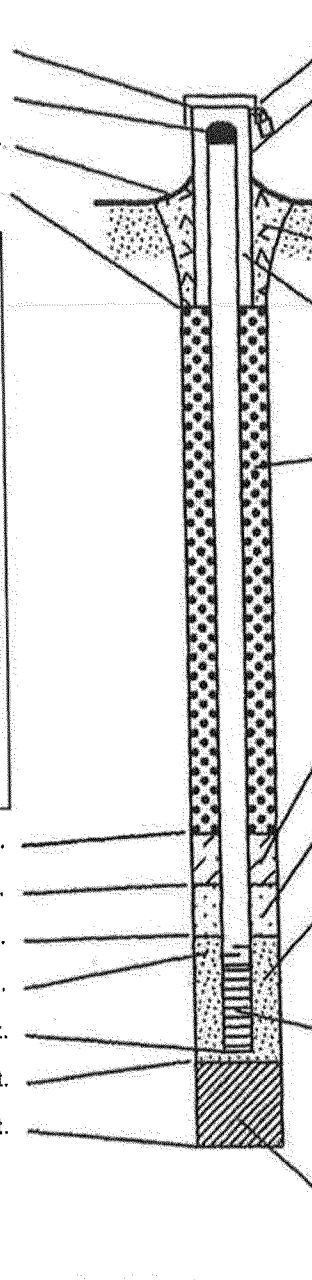
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top ___ ft. MSL or 0.00 ft.
F. Fine sand, top ___ ft. MSL or 0.50 ft.
G. Filter pack, top ___ ft. MSL or 0.9 ft.
H. Screen joint, top ___ ft. MSL or 1.40 ft.
I. Well bottom ___ ft. MSL or 11.40 ft.
J. Filter pack, bottom ___ ft. MSL or 11.40 ft.
K. Borehole, bottom ___ ft. MSL or 11.40 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal:
a. Granular Bentonite ☒ 33
b. Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. Lbs/gal mud weight Bentonite slurry ☐ 31
d. % Bentonite Bentonite-cement grout ☐ 50
e. 0.164 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.131 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: ___ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54407

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW-16 at 40-45ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft. _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

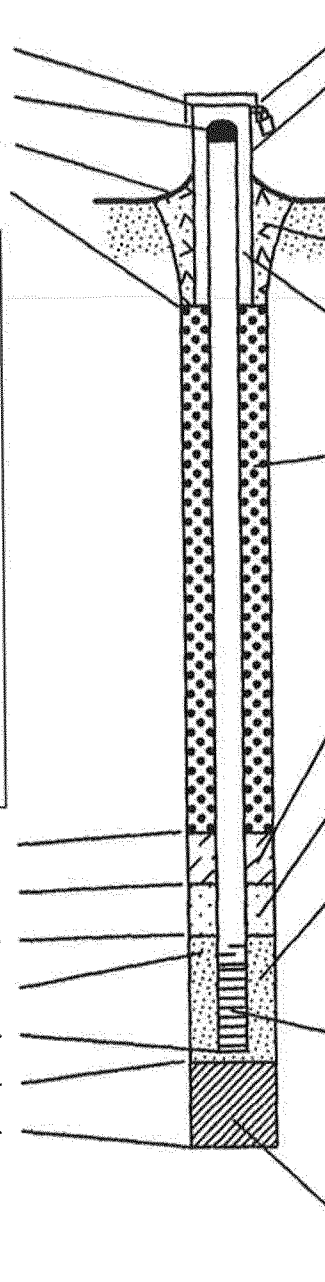
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 150 Gallons of Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 31.5 ft.
G. Filter pack, top _____ ft. MSL or _____ ft.
H. Screen joint, top _____ ft. MSL or 37.00 ft.
I. Well bottom _____ ft. MSL or 42.00 ft.
J. Filter pack, bottom _____ ft. MSL or 45.00 ft.
K. Borehole, bottom _____ ft. MSL or 45.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐
2 bags
5. Annular space seal:
a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout ☒
7. Fine sand material Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E.	Well Name MW-17
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 1 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 2.56 ft.
G. Filter pack, top _____ ft. MSL or 3.56 ft.
H. Screen joint, top _____ ft. MSL or 4.56 ft.
I. Well bottom _____ ft. MSL or 14.56 ft.
J. Filter pack, bottom _____ ft. MSL or 14.56 ft.
K. Borehole, bottom _____ ft. MSL or 14.56 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. Lbs/gal mud weight Bentonite slurry ☐ 31
d. % Bentonite Bentonite-cement grout ☐ 50
e. 0.510 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-17 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/4/15
Distance Well Is From Waste/Source Boundary Ft. ___	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 30 Gallons Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 27.6 ft.
G. Filter pack, top _____ ft. MSL or 28.1 ft.
H. Screen joint, top _____ ft. MSL or 30.6 ft.
I. Well bottom _____ ft. MSL or 35.6 ft.
J. Filter pack, bottom _____ ft. MSL or 36.00 ft.
K. Borehole, bottom _____ ft. MSL or 36.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
12 bags
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.02 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout ☒ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 0.164 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 0.491 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature Firm REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-18
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft. SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 5.41 ft.
G. Filter pack, top _____ ft. MSL or 6.41 ft.
H. Screen joint, top _____ ft. MSL or 7.41 ft.
I. Well bottom _____ ft. MSL or 17.41 ft.
J. Filter pack, bottom _____ ft. MSL or 17.41 ft.
K. Borehole, bottom _____ ft. MSL or 17.41 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal:
a. Granular Bentonite ☒ 33
b. Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. Lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. % Bentonite _____ Bentonite-cement grout ☐ 50
e. 1.769 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E.	Well Name MW-18 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 1 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

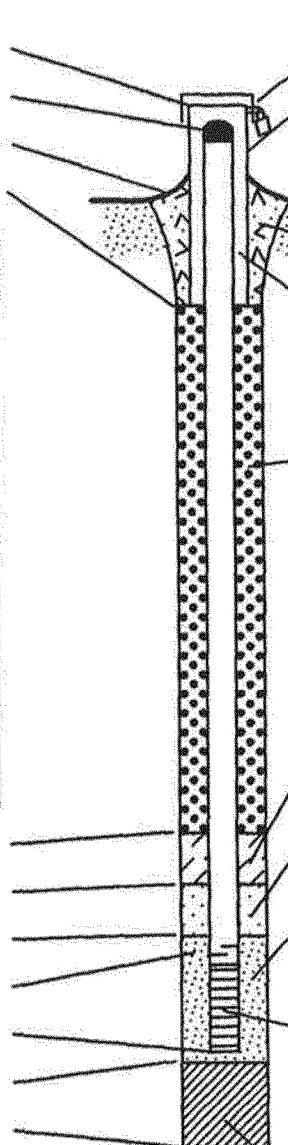
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 40 Gallons Water Added

17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 31.50 ft.
G. Filter pack, top _____ ft. MSL or 32.00 ft.
H. Screen joint, top _____ ft. MSL or 34.00 ft.
I. Well bottom _____ ft. MSL or 39.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
6 bags _____ Other ☐
5. Annular space seal:
a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. 5 % Bentonite _____ Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout _____ Other ☒
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 2 bags ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-19
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

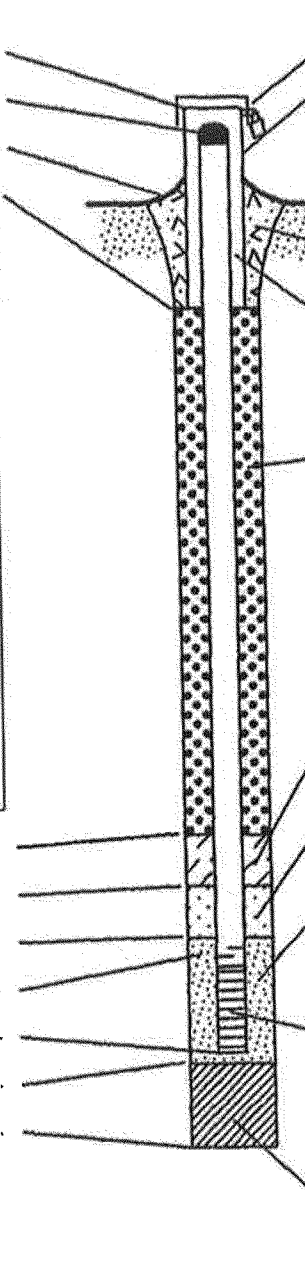
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 4.54 ft.
G. Filter pack, top _____ ft. MSL or 5.54 ft.
H. Screen joint, top _____ ft. MSL or 6.54 ft.
I. Well bottom _____ ft. MSL or 16.54 ft.
J. Filter pack, bottom _____ ft. MSL or 16.54 ft.
K. Borehole, bottom _____ ft. MSL or 16.54 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal:
a. Granular Bentonite ☒ 33
b. Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. Lbs/gal mud weight Bentonite slurry ☐ 31
d. % Bentonite Bentonite-cement grout ☐ 50
e. 1.485 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature _____

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-19 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 1 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N., R. 05 W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

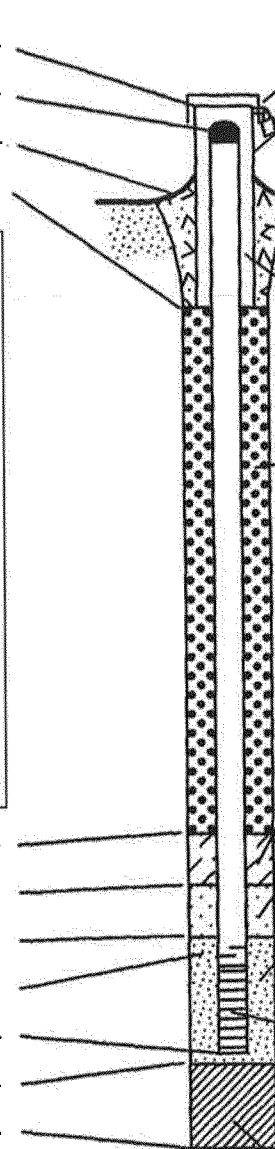
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe 40 Gallons Water Added

17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 31.00 ft.
G. Filter pack, top _____ ft. MSL or 33.00 ft.
H. Screen joint, top _____ ft. MSL or 35.00 ft.
I. Well bottom _____ ft. MSL or 40.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
5 bags _____ Other ☐
5. Annular space seal:
a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. 5 % Bentonite _____ Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1 1/2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature _____

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW-20
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft. _____	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 2.54 ft.
G. Filter pack, top _____ ft. MSL or 3.54 ft.
H. Screen joint, top _____ ft. MSL or 4.54 ft.
I. Well bottom _____ ft. MSL or 14.54 ft.
J. Filter pack, bottom _____ ft. MSL or 14.54 ft.
K. Borehole, bottom _____ ft. MSL or 14.54 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ %Bentonite _____ Bentonite-cement grout ☐ 50
e. 0.831 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

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4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-20 at 20-25ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

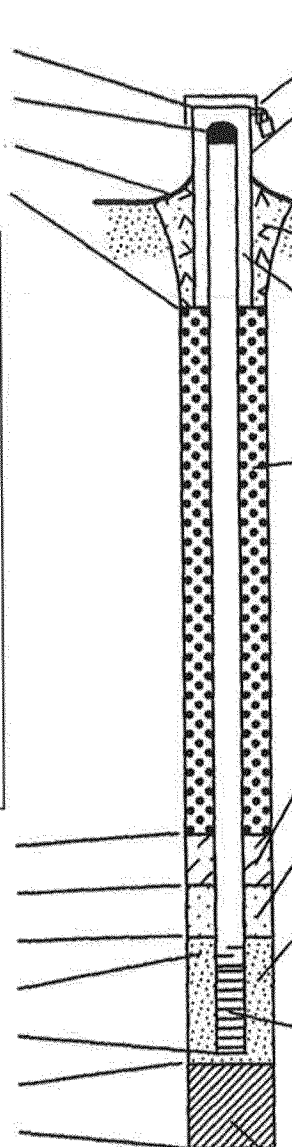
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 16.00 ft.
G. Filter pack, top _____ ft. MSL or 18.00 ft.
H. Screen joint, top _____ ft. MSL or 20.00 ft.
I. Well bottom _____ ft. MSL or 25.00 ft.
J. Filter pack, bottom _____ ft. MSL or 25.00 ft.
K. Borehole, bottom _____ ft. MSL or 25.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50
e. 5.225 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 2 1/2 bags ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature *[Signature]*

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-21
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft. ___	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 2.55 ft.
G. Filter pack, top _____ ft. MSL or 3.55 ft.
H. Screen joint, top _____ ft. MSL or 4.55 ft.
I. Well bottom _____ ft. MSL or 14.55 ft.
J. Filter pack, bottom _____ ft. MSL or 14.55 ft.
K. Borehole, bottom _____ ft. MSL or 14.55 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

 04 Other ☐ d. Additional protection? ☐ Yes ☒ No If yes, describe: _____ 3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐ 5. Annular space seal: a. Granular Bentonite ☒ 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31 d. _____ %Bentonite Bentonite-cement grout ☐ 50 e. 0.834 ft³ Volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08 6. Bentonite seal: a. Bentonite Granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32 c. _____ Other ☐ 7. Fine sand material Manufacturer, product name and mesh size a. #60 Red Flint b. Volume added 0.327 ft³ 8. Filter pack material: Manufacturer, product name and mesh size a. #30 Red Flint b. Volume added 3.27 ft³ 9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ 10. Screen material: PVC a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ b. Manufacturer U.S. Filter c. Slot size: _____ in. d. Slotted length: 10 ft. 11. Backfill material (below filter Pack): None ☒ 14 Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature _____

Firm REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-21 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

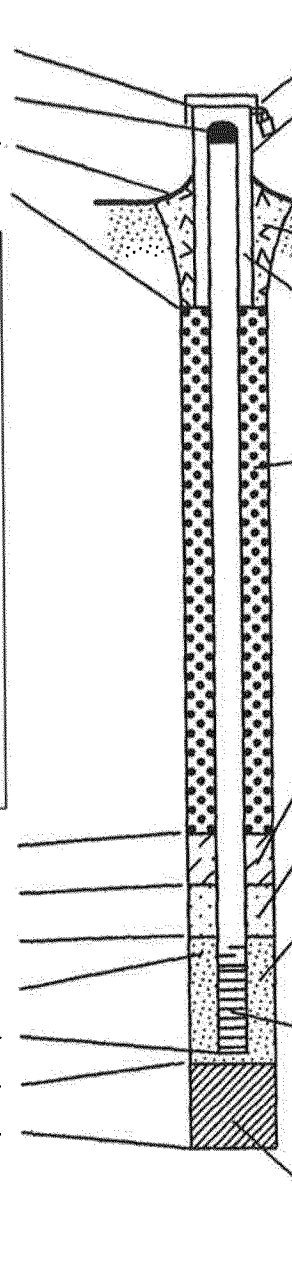
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 45 Gallons Water Added

17. Source of water (attach analysis):
City of Minocqua

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 31.00 ft.
G. Filter pack, top _____ ft. MSL or 33.00 ft.
H. Screen joint, top _____ ft. MSL or 35.00 ft.
I. Well bottom _____ ft. MSL or 40.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
8 bags Other ☐
5. Annular space seal:
a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 1/2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW-22
Facility License Permit or Monitoring Number	Grid Origin Location	Wls. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> B	Date Well Installed 11/4/15
Distance Well Is From Waste/Source Boundary Ft. _____	Location of Well Relative to Waste/Source SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

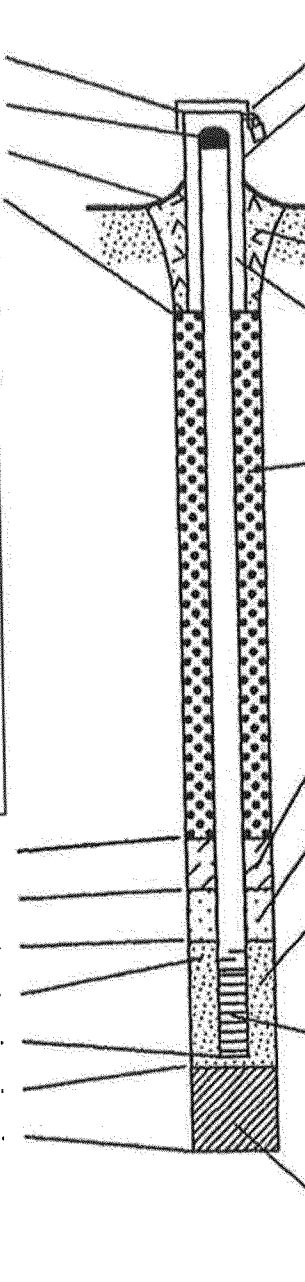
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 2.46 ft.
G. Filter pack, top _____ ft. MSL or 3.46 ft.
H. Screen joint, top _____ ft. MSL or 4.46 ft.
I. Well bottom _____ ft. MSL or 14.46 ft.
J. Filter pack, bottom _____ ft. MSL or 14.46 ft.
K. Borehole, bottom _____ ft. MSL or 14.46 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 0.804 ft³ Volume added for any of the above
f. How Installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature _____

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E.	Well Name MW-22 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

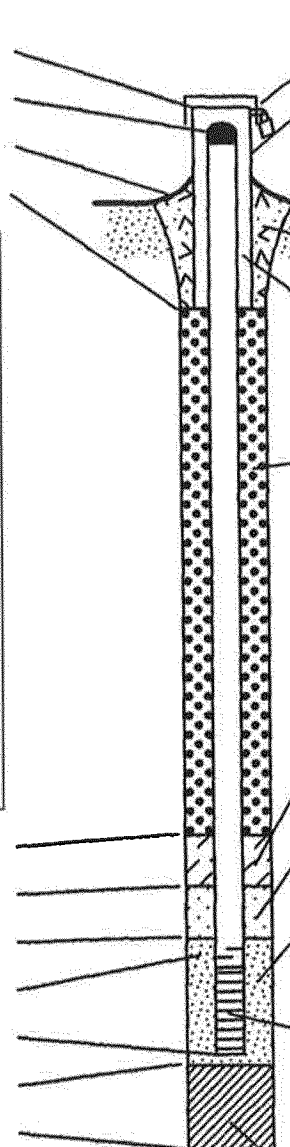
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 30.5 ft.
G. Filter pack, top _____ ft. MSL or 32.5 ft.
H. Screen joint, top _____ ft. MSL or 34.5 ft.
I. Well bottom _____ ft. MSL or 39.5 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 9.647 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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APPENDIX E

MONITORING WELL DEVELOPMENT FORMS



Facility/Project Name Tower Standard	County Name Oneida	Well Name MW16
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
 surged with bailer and pumped ☒ 61
 surged with block and bailed ☐ 42
 surged with block and pumped ☐ 62
 surged with block, bailed and pumped ☐ 70
 compressed air ☐ 20
 bailed only ☐ 10
 pumped only ☐ 51
 pumped slowly ☐ 50
 Other ☐

3. Time spent developing well 70 min.

4. Depth of well (from top of Casing) 11.40 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 7.6 gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 3.28 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 10:05 ☐ p.m. ☒ a.m.

11:15 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 9 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry 5 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW16 @ 37-42
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 57 min.

4. Depth of well (from top of Casing) 40.98 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 22 gal.

8. Volume of water added (If any) 150 gal.

9. Source of water added City of Milwaukee

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 2.14 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 10:18 ☐ p.m. ☒ a.m.

11:15 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 10 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry 4 times

150 gallons of water was added to remove blowup from boring to set well. All 150 gallons were recovered - water was recirculated between mud tub and well casing

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW17
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 63 min.

4. Depth of well (from top of Casing) 14.56 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 4.96 gal.

7. Volume of water removed from well 10.75 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 8.64 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 11:22 ☐ p.m. ☒ a.m.

12:25 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 9 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry 5 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW17 @ 31-36
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 53 min.

4. Depth of well (from top of Casing) 35.35 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 7 gal.

8. Volume of water added (If any) 30 gal.

9. Source of water added City of Milwaukee

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 8.86 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 11:34 ☐ p.m. ☒ a.m.

12:27 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 1 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 4 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry 4 times

30 gallons of water was added to prevent blowup

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW18	
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 90 min.

4. Depth of well (from top of Casing) 17.41 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 6.9 gal.

7. Volume of water removed from well 23 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 10.17 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 12:20 ☒ p.m. ☐ a.m.

☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 14 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry 7 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW18 @ 35-40
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 281 min.

4. Depth of well (from top of Casing) 41.34 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 150 gal.

8. Volume of water added (If any) 30 gal.

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 10.26 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 12:09 ☒ p.m. ☐ a.m.

3:20 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 15 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry many times, greater yield towards the end of the development process

40 gallons of water was added to prevent blowup

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW19	
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 47 min.

4. Depth of well (from top of Casing) 16.54 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 7.21 gal.

7. Volume of water removed from well 55 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing)

a. 8.96 ft.

11.38 ft.

Data

b. 11-10-15

11-10-15

mm/dd/yy

Time

c. 9:47

☐ p.m.

☒ a.m.

☐ p.m.

10:34 ☒ a.m.

12. Sediment in well bottom

4 inches

0 inches

13. Water clarity

Clear

Turbid

(Describe)

☐ 10

☒ 15

Clear

Turbid

(Describe)

☒ 10

☐ 15

Clear at 30 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW19@35-40
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 47 min.

4. Depth of well (from top of Casing) 16.54 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 150 gal.

8. Volume of water added (If any) 40 gal.

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 9.26 ft.

10:32 ft.

Data mm/dd/yy b. 11-10-15

11-10-15

Time c. 9:32 ☐ p.m. ☒ a.m.

10:32 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 12 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 100 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

40 gallons of water added to keep blow up out of augers

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW20
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 33 min.

4. Depth of well (from top of Casing) 14.54 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 6.5 gal.

7. Volume of water removed from well 75 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 7.67 ft.

14.54 ft.

Data mm/dd/yy b. 11-10-15

11-10-15

Time c. 12:09 ☒ p.m. ☐ a.m.

12:42 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 4 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 60 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW20@20-25
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 122 min.

4. Depth of well (from top of Casing) 24.98 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 150 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 7.89 ft.

10.25 ft.

Data mm/dd/yy b. 11-10-15

11-10-15

Time c. 12:08 ☒ p.m. ☐ a.m.

2:10 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 4 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 40 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW21
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 55 min.

4. Depth of well (from top of Casing) 14.55 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 6.7 gal.

7. Volume of water removed from well 50 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water
(from top of well casing)

a. 7.43 ft.

11.35 ft.

Data
mm/dd/yy

b. 11-10-15

11-10-15

Time

c. 10:40

☐ p.m.
☒ a.m.

☐ p.m.
☒ a.m.

12. Sediment in well bottom

4 inches

0 inches

13. Water clarity

Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 30 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW21@35-40
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 69 min.

4. Depth of well (from top of Casing) 39.56 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 150 gal.

8. Volume of water added (If any) 45 gal.

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 7.83 ft.

7.91 ft.

Data mm/dd/yy b. 11-10-15

11-10-15

Time c. 10:46 ☐ p.m. ☒ a.m.

11:55 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 4 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 50 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

45 gallons of water added to keep blowup from entering augers

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW22
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number DNR Well Number

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 96 min.

4. Depth of well (from top of Casing) 7.89 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 6.2 gal.

7. Volume of water removed from well 23.5 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 10.17 ft.

Dry ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 1:24 ☒ p.m. ☐ a.m.

3:00 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 10.5 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Additional comments on development:

Well pumped dry 7 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Tower Standard	County Name Oneida	Well Name MW22 @ 35-40	
Facility Licence, Permit or Monitoring Number	County Code 64	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☒ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well 90 min.

4. Depth of well (from top of Casing) 39.21 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing gal.

7. Volume of water removed from well 150 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing a. 8.44 ft.

9.13 ft.

Data mm/dd/yy b. 11-11-15

11-11-15

Time c. 1:40 ☒ p.m. ☐ a.m.

☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☒ 10
Turbid ☐ 15
(Describe)

Clear at 15 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well pumped dry many times, greater yield towards the end of the development process

No water added to well

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Initials:

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

APPENDIX F

BOREHOLE ABANDONMENT FORMS



Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water☐ Watershed/Wastewater☒ Remediation/Redevelopment☐ Waste Management☐ Other: _____

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-1
Hicap #Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH0011/4 SE 1/4 SW Section: 30 Township: 40 N Range: 05 ☒ E ☐ W
or Gov't Lot #

Well Street Address

14267 Highway 70 West

Well City, Village or Town:
Town of Lac du FlambeauWell ZIP Code:
54538

Subdivision Name

Lot #

2. Facility / Owner Information

Facility Name:
Tower StandardFacility ID (FID or PWS):
BRRTS# 03-64-127899

License/Permit/Monitoring #

Original Well Owner:
Tower StandardPresent Well Owner:
Tower StandardMailing Address of Present Owner:
14267 State Highway 70 WestCity of Present Owner:
Lac du FlambeauState:
WIZIP Code:
54538

Reason for Removal from Service

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well☐ Water Well☒ Borehole / DrillholeOriginal Construction Date (mm/dd/yyyy):
9/14/15If a Well Construction Report is available,
please attach.

Construction Type:

☐ Drilled☐ Driven (Sandpoint)☐ Dug☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation☐ BedrockTotal Well Depth From Ground Surface (ft.): 15
Casing Diameter (in.):

Lower Drillhole Diameter (in.): Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet):

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/ALiner(s) removed? ☐ Yes ☐ No ☒ N/ALiner(s) perforated? ☐ Yes ☐ No ☒ N/AScreen removed? ☐ Yes ☐ No ☒ N/ACasing left in place? ☐ Yes ☐ No ☒ N/AWas casing cut off below surface? ☐ Yes ☐ No ☒ N/ADid sealing material rise to surface? ☒ Yes ☐ No ☐ N/ADid material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped?

☐ Yes ☐ No ☐ N/AIf bentonite chips were used, were they hydrated
with water from a known safe source?☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped☒ Screened & Poured
(Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout☐ Concrete☐ Sand-Cement (Concrete) Grout☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips☐ Bentonite - Cement Grout☐ Granular Bentonite☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing:
Giles Engineering/REI Engineering, Inc.

License #

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 9/14/15

DNR Use Only

Date Received

Noted By

Street or Route:
4080 N. 20th AvenueTelephone Number:
(715) 675-9784

Comments

City:
WausauState:
WIZIP Code:
54401

Signature of Person Doing Work

Date Signed

5-16-16

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-2
Hicap #

Latitude / Longitude (see instructions):
N ☐ DD ☐ GPS008
W ☐ DDM ☐ SCR002
☐ OTH001

1/4 SE 1/4 SW Section: 30 Township: 40 N Range: 05 ☒ E ☐ W
or Gov't Lot #

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau Well ZIP Code: 54538

Subdivision Name: Lot #

Reason for Removal from Service: WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): GeoProbe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10 Casing Diameter (in.):

Lower Drillhole Diameter (in.): Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet):

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRTS# 03-64-127899

License/Permit/Monitoring #

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner: Lac du Flambeau State: WI ZIP Code: 54538

City of Present Owner: Lac du Flambeau State: WI ZIP Code: 54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Concrete

☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout

☐ Granular Bentonite ☐ Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc. License #: Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15

Street or Route: 4080 N. 20th Avenue Telephone Number: (715) 675-9784

City: Wausau State: WI ZIP Code: 54401 Signature of Person Doing Work: Date Signed: 5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water☐ Watershed/Wastewater☒ Remediation/Redevelopment☐ Waste Management☐ Other: _____

1. Well Location Information

County Vilas	WI Unique Well # of Removed Well BH-3	Hicap #
Latitude / Longitude (see instructions) ____ N ____ W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE or Gov't Lot #	Section 30	Township 40 N
Well Street Address 14267 Highway 70 West	Range 05	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town Town of Lac du Flambeau	Well ZIP Code 54538	
Subdivision Name	Lot #	

2. Facility / Owner Information

Facility Name Tower Standard		
Facility ID (FID or PWS) BRRTS# 03-64-127899		
License/Permit/Monitoring #		
Original Well Owner Tower Standard		
Present Well Owner Tower Standard		
Mailing Address of Present Owner 14267 State Highway 70 West		
City of Present Owner Lac du Flambeau	State WI	ZIP Code 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 9/14/15 If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): GeoProbe	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
Street or Route 4080 N. 20th Avenue	Telephone Number (715) 675-9784	Comments	Date Received	Noted By
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work 	Date Signed 5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County Vilas	WI Unique Well # of Removed Well BH-4	Hicap #
Latitude / Longitude (see instructions) _____ N _____ W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE or Gov't Lot #	Section 30	Township 40 N
Well Street Address 14267 Highway 70 West	Well ZIP Code 54538	
Well City, Village or Town Town of Lac du Flambeau	Well ZIP Code 54538	
Subdivision Name	Lot #	
Reason for Removal from Service	WI Unique Well # of Replacement Well	

2. Facility / Owner Information

Facility Name Tower Standard
Facility ID (FID or PWS) BRRTS# 03-64-127899
License/Permit/Monitoring #
Original Well Owner Tower Standard
Present Well Owner Tower Standard
Mailing Address of Present Owner 14267 State Highway 70 West
City of Present Owner Lac du Flambeau
State WI
ZIP Code 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 9/14/15
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): GeoProbe	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
Street or Route 4080 N. 20th Avenue	Telephone Number (715) 675-9784	Comments	Date Received	Noted By
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work	Date Signed 5-16-16

☐ Verification Only of Fill and Seal☒ Remediation/Redevelopment☐ Other:

2. Facility / Owner Information

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> NA
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA

Required Method of Placing Sealing Material:

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain): _____
 (Bentonite Chios)

Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
------------	----------	--	----------------------------

Surface	10			
---------	----	--	--	--

[illegible]

DNR Use Only

City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work 	Date Signed 5-16-14
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Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau:	
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater
	<input type="checkbox"/> Waste Management	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County	WI Unique Well # of Removed Well BH-6	Hicap #		Facility Name			
Vilas				Tower Standard			
Latitude / Longitude (see instructions)		Format Code	Method Code	Facility ID (FID or PWS)			
_____ N		<input type="checkbox"/> DD	<input type="checkbox"/> GPS008	BRRTS# 03-64-127899			
_____ W		<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002	License/Permit/Monitoring #			
			<input type="checkbox"/> OTH001				
1/4 1/4 SE	1/4 SW	Section	Township	Range	Original Well Owner		
or Gov't Lot #		30	40 N	05 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Tower Standard		
Well Street Address				Present Well Owner			
14267 Highway 70 West				Tower Standard			
Well City, Village or Town				Mailing Address of Present Owner			
Town of Lac du Flambeau				14267 State Highway 70 West			
Subdivision Name				City of Present Owner	State	ZIP Code	
				Lac du Flambeau	WI	54538	

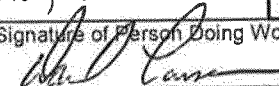
Reason for Removal from Service	WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	9/14/15
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input checked="" type="checkbox"/> Other (specify): GeoProbe	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____		
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite Holeplug		Surface	15		

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing		License #	Date of Filling & Sealing or Verification	Date Received	Noted By
Giles Engineering/REI Engineering, Inc.			(mm/dd/yyyy) 9/14/15		
Street or Route		Telephone Number		Comments	
4080 N. 20th Avenue		(715) 675-9784			
City	State	ZIP Code	Signature of Person Doing Work		Date Signed
Wausau	WI	54401			5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County Vilas	WI Unique Well # of Removed Well BH-7	Hicap #
Latitude / Longitude (see instructions) N W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 / 1/4 SE or Gov't Lot #	1/4 SW	Section 30
Township 40 N		Range 05 E <input type="checkbox"/> W
Well Street Address 14267 Highway 70 West		
Well City, Village or Town Town of Lac du Flambeau		Well ZIP Code 54538
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Tower Standard		
Facility ID (FID or PWS) BRRTS# 03-64-127899		
License/Permit/Monitoring #		
Original Well Owner Tower Standard		
Present Well Owner Tower Standard		
Mailing Address of Present Owner 14267 State Highway 70 West		
City of Present Owner Lac du Flambeau	State WI	ZIP Code 54538

Reason for Removal from Service

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 9/14/15
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): GeoProbe	

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)

15

Lower Drillhole Diameter (in.)

Casing Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
Street or Route 4080 N. 20th Avenue			Date Received	Noted By
City Wausau			Telephone Number (715) 675-9784	Comments
State WI	ZIP Code 54401	Signature of Person Doing Work	Date Signed 5-16-16	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-8
Hicap #:

Latitude / Longitude (see instructions):
N: _____ W: _____
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

1/4 1/4 SE 1/4 SW Section: 30 Township: 40 N Range: 05 ☒ E ☐ W
or Gov't Lot #:

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538

Subdivision Name: _____ Lot #: _____

Reason for Removal from Service: _____ WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): GeoProbe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): _____ Casing Depth (ft.): _____

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): _____

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner: Lac du Flambeau WI State: WI ZIP Code: 54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout ☐ Concrete

☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout

☐ Granular Bentonite ☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
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Surface	10		
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6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
--	-----------	--	---------------	----------

Giles Engineering/REI Engineering, Inc.		9/14/15		
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Street or Route	Telephone Number	Comments
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4080 N. 20th Avenue	(715) 675-9784	
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City	State	ZIP Code	Signature of Person Doing Work	Date Signed
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Wausau	WI	54401		5-16-14
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Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County _____ WI Unique Well # of Removed Well BH-9 _____ Hicap # _____

Latitude / Longitude (see instructions) _____ N ☐ DD ☐ GPS008
_____ W ☐ DDM ☐ SCR002
_____ ☐ OTH001

1/4 1/4 SE 1/4 SW Section Township Range ☒ E
or Gov't Lot # 30 40 N 05 ☐ W

Well Street Address
14267 Highway 70 West

Well City, Village or Town Well ZIP Code
Town of Lac du Flambeau 54538

Subdivision Name Lot # _____

Reason for Removal from Service WI Unique Well # of Replacement Well _____

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well

☐ Water Well

☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
9/14/15

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled

☐ Driven (Sandpoint)

☐ Dug

☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation

☐ Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

15

Lower Drillhole Diameter (in.) Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

2. Facility / Owner Information

Facility Name

Tower Standard

Facility ID (FID or PWS)

BRRTS# 03-64-127899

License/Permit/Monitoring #

Original Well Owner

Tower Standard

Present Well Owner

Tower Standard

Mailing Address of Present Owner

14267 State Highway 70 West

City of Present Owner

Lac du Flambeau

State

WI

ZIP Code

54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?

☐ Yes

☐ No

☒ N/A

Liner(s) removed?

☐ Yes

☐ No

☒ N/A

Liner(s) perforated?

☐ Yes

☐ No

☒ N/A

Screen removed?

☐ Yes

☐ No

☒ N/A

Casing left in place?

☐ Yes

☐ No

☒ N/A

Was casing cut off below surface?

☐ Yes

☐ No

☒ N/A

Did sealing material rise to surface?

☒ Yes

☐ No

☐ N/A

Did material settle after 24 hours?

☐ Yes

☒ No

☐ N/A

If yes, was hole retopped?

☐ Yes

☐ No

☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source?

☐ Yes

☐ No

☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity

☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips)

☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout

☐ Concrete

☐ Sand-Cement (Concrete) Grout

☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips

☐ Bentonite - Cement Grout

☐ Granular Bentonite

☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Giles Engineering/REI Engineering, Inc.

License #

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 9/14/15

Date Received

Noted By

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work

Date Signed

5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

☐ Verification Only of Fill and Seal

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County _____ WI Unique Well # of Removed Well BH-10 _____ Hicap # _____

Vilas _____
Latitude / Longitude (see instructions) _____ N ☐ DD ☐ GPS008
_____ W ☐ DDM ☐ SCR002
_____ ☐ OTH001

1/4 1/4 SE 1/4 SW Section Township Range ☒ E
or Gov't Lot # 30 40 N 05 ☐ W

Well Street Address
14267 Highway 70 West

Well City, Village or Town Well ZIP Code
Town of Lac du Flambeau 54538

Subdivision Name Lot # _____

2. Facility / Owner Information

Facility Name
Tower Standard

Facility ID (FID or PWS)
BRRTS# 03-64-127899

License/Permit/Monitoring # _____

Original Well Owner
Tower Standard

Present Well Owner
Tower Standard

Mailing Address of Present Owner
14267 State Highway 70 West

City of Present Owner State ZIP Code
Lac du Flambeau WI 54538

Reason for Removal from Service WI Unique Well # of Replacement Well _____

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well

☐ Water Well

☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
9/14/15

If a Well Construction Report is available,
please attach.

Construction Type:

☐ Drilled

☐ Driven (Sandpoint)

☐ Dug

☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation

☐ Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

15

Lower Drillhole Diameter (in.) Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet):

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout

☐ Concrete

☐ Sand-Cement (Concrete) Grout

☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips

☐ Bentonite - Cement Grout

☐ Granular Bentonite

☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight

Surface 15

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Giles Engineering/REI Engineering, Inc.

License # _____

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 9/14/15

Date Received _____

Noted By _____

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments _____

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work

Date Signed

5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

☐ Verification Only of Fill and Seal

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County Vilas	WI Unique Well # of Removed Well BH-11	Hicap #
Latitude / Longitude (see instructions) _____ N _____ W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE or Gov't Lot #	Section 30	Township 40 N
		Range 05 E <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 14267 Highway 70 West		
Well City, Village or Town Town of Lac du Flambeau		Well ZIP Code 54538
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Tower Standard
Facility ID (FID or PWS) BRRTS# 03-64-127899
License/Permit/Monitoring #
Original Well Owner Tower Standard
Present Well Owner Tower Standard
Mailing Address of Present Owner 14267 State Highway 70 West
City of Present Owner Lac du Flambeau
State WI
ZIP Code 54538

Reason for Removal from Service WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 9/14/15
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

10

Lower Drillhole Diameter (in.) Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

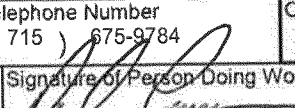
If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
			Date Received	Noted By
Street or Route 4080 N. 20th Avenue			Comments	
Telephone Number (715) 875-9784				
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work 	Date Signed 5-16-16

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

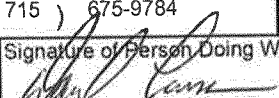
☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information					2. Facility / Owner Information			
County		WI Unique Well # of Removed Well BH-12		Hicap #		Facility Name Tower Standard		
Vilas						Facility ID (FID or PWS) BRTS# 03-64-127899		
Latitude / Longitude (see instructions)		Format Code		Method Code		License/Permit/Monitoring #		
_____ N		<input type="checkbox"/> DD		<input type="checkbox"/> GPS008				
_____ W		<input type="checkbox"/> DDM		<input type="checkbox"/> SCR002				
		<input type="checkbox"/> OTH001						
1/4 1/4 SE		1/4 SW		Section		Township		Range
or Gov't Lot #		30		40		N		05
								<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 14267 Highway 70 West					Original Well Owner Tower Standard			
Well City, Village or Town Town of Lac du Flambeau					Present Well Owner Tower Standard			
Subdivision Name					Well ZIP Code 54538			
Reason for Removal from Service					WI Unique Well # of Replacement Well			
3. Filled & Sealed Well / Drillhole / Borehole Information								
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 9/14/15						
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.						
<input checked="" type="checkbox"/> Borehole / Drillhole								
Construction Type:								
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug				
<input checked="" type="checkbox"/> Other (specify): GeoProbe								
Formation Type:								
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock						
Total Well Depth From Ground Surface (ft.) 15		Casing Diameter (in.)						
Lower Drillhole Diameter (in.)		Casing Depth (ft.)						
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown								
If yes, to what depth (feet)?		Depth to Water (feet)						
5. Material Used to Fill Well / Drillhole								
Granular Bentonite Holeplug					From (ft.) Surface	To (ft.) 15	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
6. Comments								
7. Supervision of Work					DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15		Date Received		Noted By
Street or Route 4080 N. 20th Avenue		Telephone Number (715) 675-9784		Comments				
City Wausau		State WI		ZIP Code 54401		Signature of Person Doing Work 		Date Signed 5-16-16

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Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

☐ **Verification Only of Fill and Seal**

1. Well Location Information

County Vilas	WI Unique Well # of Removed Well BH-13	Hicap #
Latitude / Longitude (see instructions) N W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 SE or Gov't Lot #	Section 30	Township 40 N
Range 05	Original Well Owner Tower Standard	Present Well Owner Tower Standard
Well Street Address 14267 Highway 70 West	Well City, Village or Town Town of Lac du Flambeau	Well ZIP Code 54538
Subdivision Name	Lot #	

2. Facility / Owner Information

Facility Name Tower Standard
Facility ID (FID or PWS) BRRTS# 03-64-127899
License/Permit/Monitoring #
Original Well Owner Tower Standard
Present Well Owner Tower Standard
Mailing Address of Present Owner 14267 State Highway 70 West
City of Present Owner Lac du Flambeau
State WI
ZIP Code 54538

Reason for Removal from Service **WI Unique Well # of Replacement Well**

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 9/14/15
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): GeoProbe	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):	
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
Street or Route 4080 N. 20th Avenue	Telephone Number (715) 675-9784	Comments	Date Received	Noted By
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work 	Date Signed 5-16-16

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well BH-14	Hicap #
Vilas		
Latitude / Longitude (see instructions)	Format Code	Method Code
N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
		<input type="checkbox"/> OTH001
1/4 1/4 SE	1/4 SW	Section
or Gov't Lot #	30	Township
	40	Range
	N	05
		<input checked="" type="checkbox"/> E
		<input type="checkbox"/> W

Well Street Address	Well ZIP Code
14267 Highway 70 West	54538
Well City, Village or Town	Well ZIP Code
Town of Lac du Flambeau	54538
Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	9/14/15
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input checked="" type="checkbox"/> Other (specify): GeoProbe	<input type="checkbox"/> Dug

Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
2	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet)		

2. Facility / Owner Information

Facility Name		
Tower Standard		
Facility ID (FID or PWS)		
BRTS# 03-64-127899		
License/Permit/Monitoring #		
Original Well Owner		
Tower Standard		
Present Well Owner		
Tower Standard		
Mailing Address of Present Owner		
14267 State Highway 70 West		
City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Required Method of Placing Sealing Material

<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____

Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:


<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	Surface	2		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15	DNR Use Only	
			Date Received	Noted By
Street or Route 4080 N. 20th Avenue			Comments	
Telephone Number (715) 875-9784				
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work 	Date Signed 5-16-16

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Route to DNR Bureau:

☐ Drinking Water

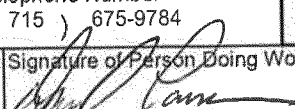
☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

☐ Verification Only of Fill and Seal

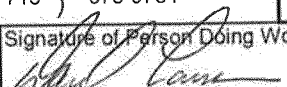
1. Well Location Information				2. Facility / Owner Information			
County		WI Unique Well # of Removed Well BH-15		Hicap #		Facility Name	
Vilas						Tower Standard	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS)	
_____ N		<input type="checkbox"/> DD		<input type="checkbox"/> GPS008		BRRTS# 03-64-127899	
_____ W		<input type="checkbox"/> DDM		<input type="checkbox"/> SCR002		License/Permit/Monitoring #	
_____ OTH001							
1/4 1/4 SE		Section		Township		Range	
or Gov't Lot #		30		40 N		05 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address						Original Well Owner	
14267 Highway 70 West						Tower Standard	
Well City, Village or Town						Present Well Owner	
Town of Lac du Flambeau						Tower Standard	
Subdivision Name						Mailing Address of Present Owner	
						14267 State Highway 70 West	
Well ZIP Code						City of Present Owner	
54538						Lac du Flambeau WI	
State						ZIP Code	
WI						54538	
Reason for Removal from Service				WI Unique Well # of Replacement Well			
3. Filled & Sealed Well / Drillhole / Borehole Information							
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy)					
<input type="checkbox"/> Water Well		9/14/15					
<input checked="" type="checkbox"/> Borehole / Drillhole		If a Well Construction Report is available, please attach.					
Construction Type:							
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug			
<input checked="" type="checkbox"/> Other (specify): GeoProbe							
Formation Type:							
<input checked="" type="checkbox"/> Unconsolidated Formation				<input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.)				Casing Diameter (in.)			
10							
Lower Drillhole Diameter (in.)				Casing Depth (ft.)			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown							
If yes, to what depth (feet)?				Depth to Water (feet)			
5. Material Used to Fill Well / Drillhole				4. Pump, Liner, Screen, Casing & Sealing Material			
Granular Bentonite Holeplug				Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				Required Method of Placing Sealing Material			
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
5. Material Used to Fill Well / Drillhole				From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight			
Granular Bentonite Holeplug				Surface 10			
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy)		Date Received	
Giles Engineering/REI Engineering, Inc.				9/14/15			
Street or Route		Telephone Number		Comments			
4080 N. 20th Avenue		(715) 675-9784					
City		State		ZIP Code		Signature of Person Doing Work	
Wausau		WI		54401			
						Date Signed	
						5-16-16	

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Route to DNR Bureau:

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Vilas		WI Unique Well # of Removed Well BH-16		Hicap #		Facility Name Tower Standard	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) BRRTS# 03-64-127899	
1/4 1/4 SE 1/4 SW or Gov't Lot #		Section 30		Township 40 N		Range 05 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 14267 Highway 70 West				Original Well Owner Tower Standard			
Well City, Village or Town Town of Lac du Flambeau				Present Well Owner Tower Standard			
Subdivision Name				Mailing Address of Present Owner 14267 State Highway 70 West			
Well ZIP Code 54538				City of Present Owner Lac du Flambeau		State WI	
Lot #				ZIP Code 54538			
Reason for Removal from Service		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 9/14/15		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) 10		Casing Diameter (in.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
5. Material Used to Fill Well / Drillhole							
Granular Bentonite Holeplug		From (ft.) Surface		To (ft.) 10		No. Yards, Sacks Sealant or Volume (circle one)	
						Mix Ratio or Mud Weight	
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/14/15		Date Received	
Street or Route 4080 N. 20th Avenue		Telephone Number (715) 675-9784		Comments		Noted By	
City Wausau		State WI		ZIP Code 54401		Signature of Person Doing Work 	
						Date Signed 5-16-16	

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Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

☐ Verification Only of Fill and Seal

1. Well Location Information				2. Facility / Owner Information											
County Vilas		WI Unique Well # of Removed Well BH-17		Hicap #		Facility Name Tower Standard									
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) BRRTS# 03-64-127899									
1/4 / 1/4 SE 1/4 SW		Section 30		Township 40 N		Range 05 <input checked="" type="checkbox"/> E <input type="checkbox"/> W									
or Gov't Lot #						License/Permit/Monitoring #									
Well Street Address 14267 Highway 70 West				Original Well Owner Tower Standard											
Well City, Village or Town Town of Lac du Flambeau				Present Well Owner Tower Standard											
Subdivision Name				Mailing Address of Present Owner 14267 State Highway 70 West											
Well ZIP Code 54538				City of Present Owner Lac du Flambeau											
Lot #				State WI		ZIP Code 54538									
3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material											
Reason for Removal from Service		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 9/15/15		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
Construction Type:				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
<input checked="" type="checkbox"/> Other (specify): GeoProbe				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A											
Formation Type:				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A											
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A											
Total Well Depth From Ground Surface (ft.) 15		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A											
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Required Method of Placing Sealing Material											
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped											
If yes, to what depth (feet)?				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____											
5. Material Used to Fill Well / Drillhole				Sealing Materials											
Granular Bentonite Holeplug				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete											
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips											
				For Monitoring Wells and Monitoring Well Boreholes Only:											
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout											
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry											
6. Comments				7. Supervision of Work											
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">DNR Use Only</th> </tr> <tr> <td>Date Received</td> <td>Noted By</td> </tr> <tr> <td colspan="2">Comments</td> </tr> <tr> <td colspan="2">Date Signed 5-16-16</td> </tr> </table>				DNR Use Only		Date Received	Noted By	Comments		Date Signed 5-16-16	
DNR Use Only															
Date Received	Noted By														
Comments															
Date Signed 5-16-16															
Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.				License #											
Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/15/15				Telephone Number (715) 675-9784											
Street or Route 4080 N. 20th Avenue				City Wausau											
State WI				ZIP Code 54401											
Signature of Person Doing Work 															

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County _____ WI Unique Well # of Removed Well BH-18 Hicap # _____

Vilas _____
Latitude / Longitude (see instructions) _____ N _____ W _____
Format Code ☐ DD ☐ DDM Method Code ☐ GPS008 ☐ SCR002 ☐ OTH001

1/4 1/4 SE 1/4 SW Section 30 Township 40 N Range 05 ☒ E ☐ W
or Gov't Lot # _____

Well Street Address
14267 Highway 70 West

Well City, Village or Town
Town of Lac du Flambeau Well ZIP Code 54538

Subdivision Name _____ Lot # _____

Reason for Removal from Service _____ WI Unique Well # of Replacement Well _____

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well

☐ Water Well

☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
9/15/15

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled

☐ Driven (Sandpoint)

☐ Dug

☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation

☐ Bedrock

Total Well Depth From Ground Surface (ft.) _____ Casing Diameter (in.) _____

10

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) _____

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) _____

2. Facility / Owner Information

Facility Name
Tower Standard

Facility ID (FID or PWS)
BRTS# 03-64-127899

License/Permit/Monitoring # _____

Original Well Owner
Tower Standard

Present Well Owner
Tower Standard

Mailing Address of Present Owner
14267 State Highway 70 West

City of Present Owner Lac du Flambeau WI State ZIP Code 54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout

☐ Concrete

☐ Sand-Cement (Concrete) Grout

☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips

☐ Bentonite - Cement Grout

☐ Granular Bentonite

☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Giles Engineering/REI Engineering, Inc.

License # _____

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 9/15/15

DNR Use Only

Date Received _____

Noted By _____

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments _____

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work


Date Signed
5-16-16

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Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

☐ Verification Only of Fill and Seal

1. Well Location Information

County: Vilas WI Unique Well # of Removed Well: BH-19 Hicap #

Latitude / Longitude (see instructions): N W Format Code: ☐ DD ☐ DDM Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

1/4 1/4 SE 1/4 SW Section: 30 Township: 40 N Range: 05 ☒ E ☐ W or Gov't Lot #

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau Well ZIP Code: 54538

Subdivision Name: Lot #

Reason for Removal from Service: WI Unique Well # of Replacement Well:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well

☐ Water Well

☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/15/15

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled

☐ Driven (Sandpoint)

☐ Dug

☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation

☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10 Casing Diameter (in.):

Lower Drillhole Diameter (in.): Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet):

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner: Lac du Flambeau WI State: WI ZIP Code: 54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout

☐ Concrete

☐ Sand-Cement (Concrete) Grout

☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips

☐ Bentonite - Cement Grout

☐ Granular Bentonite

☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.

License #

Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/15/15

Date Received

Noted By

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

Comments

City: Wausau

State: WI

ZIP Code: 54401

Signature of Person Doing Work:

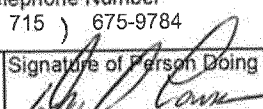
Date Signed: 5-16-16

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Vilas		WI Unique Well # of Removed Well BH-20		Hicap #		Facility Name Tower Standard	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) BRRTS# 03-64-127899	
1/4 1/4 SE 1/4 SW or Gov't Lot #		Section 30		Township 40 N		Range 05 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 14267 Highway 70 West				Original Well Owner Tower Standard			
Well City, Village or Town Town of Lac du Flambeau				Present Well Owner Tower Standard			
Subdivision Name				Mailing Address of Present Owner 14267 State Highway 70 West			
Well ZIP Code 54538				City of Present Owner Lac du Flambeau WI			
State WI				ZIP Code 54538			
3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
Reason for Removal from Service		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 9/15/15		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): GeoProbe				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) 10		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Required Method of Placing Sealing Material			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
If yes, to what depth (feet)?				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
5. Material Used to Fill Well / Drillhole				Sealing Materials			
Granular Bentonite Holeplug				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
6. Comments				7. Supervision of Work			
				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/15/15		Date Received	
Street or Route 4080 N. 20th Avenue		Telephone Number (715) 675-9784		Comments		Noted By	
City Wausau		State WI		ZIP Code 54401		Signature of Person Doing Work 	
						Date Signed 5-16-16	

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water

☐ Watershed/Wastewater

☒ Remediation/Redevelopment

☐ Waste Management

☐ Other: _____

1. Well Location Information

County _____ WI Unique Well # of Removed Well BH-21 Hicap # _____

Vilas _____
Latitude / Longitude (see instructions) _____ N ☐ DD ☐ GPS008
_____ W ☐ DDM ☐ SCR002
☐ OTH001

1/4 1/4 SE 1/4 SW Section Township Range ☒ E
or Gov't Lot # 30 40 N 05 ☐ W

Well Street Address
14267 Highway 70 West

Well City, Village or Town Well ZIP Code
Town of Lac du Flambeau 54538

Subdivision Name Lot # _____

Reason for Removal from Service WI Unique Well # of Replacement Well _____

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well

☐ Water Well

☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
9/15/15

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled

☐ Driven (Sandpoint)

☐ Dug

☒ Other (specify): GeoProbe

Formation Type:

☒ Unconsolidated Formation

☐ Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

15

Lower Drillhole Diameter (in.) Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)? Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

Granular Bentonite Holeplug

2. Facility / Owner Information

Facility Name
Tower Standard

Facility ID (FID or PWS)
BRRS# 03-64-127899

License/Permit/Monitoring # _____

Original Well Owner
Tower Standard

Present Well Owner
Tower Standard

Mailing Address of Present Owner
14267 State Highway 70 West

City of Present Owner State ZIP Code
Lac du Flambeau WI 54538

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? ☐ Yes ☐ No ☒ N/A

Liner(s) removed? ☐ Yes ☐ No ☒ N/A

Liner(s) perforated? ☐ Yes ☐ No ☒ N/A

Screen removed? ☐ Yes ☐ No ☒ N/A

Casing left in place? ☐ Yes ☐ No ☒ N/A

Was casing cut off below surface? ☐ Yes ☐ No ☒ N/A

Did sealing material rise to surface? ☒ Yes ☐ No ☐ N/A

Did material settle after 24 hours? ☐ Yes ☒ No ☐ N/A

If yes, was hole retopped? ☐ Yes ☐ No ☐ N/A

If bentonite chips were used, were they hydrated with water from a known safe source? ☐ Yes ☐ No ☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped

☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

☐ Neat Cement Grout

☐ Concrete

☐ Sand-Cement (Concrete) Grout

☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips

☐ Bentonite - Cement Grout

☐ Granular Bentonite

☐ Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Giles Engineering/REI Engineering, Inc.

License # _____

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 9/15/15

Date Received _____

Noted By _____

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments _____

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work

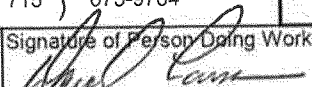

Date Signed
5-16-16

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Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

☐ **Verification Only of Fill and Seal**

1. Well Location Information				2. Facility / Owner Information			
County Vilas		WI Unique Well # of Removed Well BH-22A		Hicap #		Facility Name Tower Standard	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) BRRS# 03-64-127899	
1/4 SE or Gov't Lot #		1/4 SW		Section 30		Township 40 N	
				Range 05		<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 14267 Highway 70 West				Original Well Owner Tower Standard			
Well City, Village or Town Town of Lac du Flambeau				Present Well Owner Tower Standard			
Subdivision Name				Well ZIP Code 54538			
Reason for Removal from Service				WI Unique Well # of Replacement Well			
3. Filled & Sealed Well / Drillhole / Borehole Information							
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 9/15/15					
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.					
<input checked="" type="checkbox"/> Borehole / Drillhole							
Construction Type:							
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug			
<input checked="" type="checkbox"/> Other (specify): GeoProbe							
Formation Type:							
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock					
Total Well Depth From Ground Surface (ft.) 5		Casing Diameter (in.)					
Lower Drillhole Diameter (in.)		Casing Depth (ft.)					
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown							
If yes, to what depth (feet)?		Depth to Water (feet)					
5. Material Used to Fill Well / Drillhole				4. Pump, Liner, Screen, Casing & Sealing Material			
Granular Bentonite Holeplug				Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
				Required Method of Placing Sealing Material			
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
				<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
5. Material Used to Fill Well / Drillhole				6. Comments			
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Filling & Sealing Giles Engineering/REI Engineering, Inc.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/15/15		Date Received	
Street or Route 4080 N. 20th Avenue		Telephone Number (715) 675-9784		Comments		Noted By	
City Wausau		State WI		ZIP Code 54401		Signature of Person Doing Work 	
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